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FIRST RECORD OF THE FAMILY IBALIIDAE (HYMENOPTERA) FROM THE KURIL ARCHIPELAGO, RUSSIA

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Summary. Family Ibaliidae, the genus *Ibalia* Latreille, 1802 and two species, *I. (Ibalia) leucospoides* (Hochenwarth, 1785) and *I. (Tremibalia) jakowlewi* Jacobson, 1899, are newly recorded from Kunashir Island (Kuril Archipelago). A key to the species of Ibaliidae known from the Russian Far East is given also.

Key words: Hymenoptera, Ibaliidae, fauna, new record, key, Kunashir Island, Russia.

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Резюме. Впервые с острова Кунашир (Курильские острова) указываются семейство Ibaliidae, род *Ibalia* Latreille, 1802 и два вида, *I. (Ibalia) leucospoides* (Hochenwarth, 1785) и *I. (Tremibalia) jakowlewi* Jacobson, 1899. Приведена определительная таблица дальневосточных видов семейства Ibaliidae.

INTRODUCTION

Ibaliidae is a small parasitoid family includes 20 recent species in three genera, *Ibalia* Latreille, 1802, *Heteribalia* Sakagami, 1949 and *Eileenella* Fergusson, 1992 in the World (Liu & Nordlander, 1994; Choi *et al.*, 2013; Aguiar *et al.*, 2013). All known Ibaliidae are endoparasitoids of the wood wasp larvae (Hymenoptera: Siricidae) living in conifers and hardwoods (Liu & Nordlander, 1994; Hansen, 2010; Paretas-Martinèz *et al.*, 2013). Three species of Ibaliidae are known from the Russian Far East, but this family has never been recorded from Kuril Archipelago (Melika, 2012). Present paper is based on material collected by author on Kunashir Island in 2013 and 2014.

NEW RECORDS Family Ibaliidae Genus *Ibalia* Latreille, 1802

NOTES. There are three species of this genus in the fauna of the Russian Far East: worldwide *Ibalia* (*Ibalia*) *leucospoides* (Hochenwarth, 1785), Palaearctic *I.* (*Tremibalia*) *jakowlewi*

Jacobson, 1899, and *I.* (*T.*) ornata Belizin, 1968 known from Russia (Primorskiy kray) and China (Melika, 2012).

Ibalia (Ibalia) leucospoides leucospoides (Hochenwarth, 1785)

Ichneumon leucospoides Hochenwarth, 1785: 345; type locality: not given in original description, but probably Berlin.

Ichneumon cultellator Fabricius, 1793: 167; type locality: "Germania".

Diplolepis ibalia De Lamarck, 1817: 163; type locality: "France meridionale".

Ibalia suprunenkoi Jacobson, 1899: 289; type locality: Russia, Sakhalin, between Douay harbor and Alexandrovsk.

Ibalia arcuata Dalla Torre & Kieffer, 1910: 23; type locality: "England, Italien, Deutschland"

Ibalia sachalinensis Matsumura, 1911: 98; type locality: Russia, "Sakhalin, Mauka". *Ibalia picea* Matsumura, 1912: 163; type locality: Japan.

MATERIAL. **Russia**: South Kurile, Kunashir Island, Tretyakovo, dry fir, 21–22.VIII 2013, 2, leg. Yu. Sundukov and L. Sundukova.



Fig. 1. Ibalia (Ibalia) leucospoides leucospoides, female from Tretyakovo, Kunashir Island, lateral view.

DISTRIBUTION. Russia: Kunashir Island (new record), Sakhalin, Primorskiy kray; Japan, South Korea, China, Greece, Bulgaria, Hungary, Czech Republic, Poland, Sweden, Switzerland, Germany, Italy, Belgium, Netherlands, France, British Islands, Spain, Portugal, Turkey, Cyprus, Algeria, Tunisia, Morocco; introduced to Argentina, Australia, Tasmania, New Zealand (Liu & Nordlander, 1994; Muruaga de L'Argentier *et al.*, 2005; Ljubomirov *et al.*, 2006; Peeters, 2011; Melika, 2012; Choi *et al.*, 2013; Paretas-Martínez *et al.*, 2013).

HOSTS. Parasitoid of wood wasps of the genera *Sirex, Urocerus* and *Xeris* in coniferous forests (Liu & Nordlander, 1994; Choi *et al.*, 2013).



Fig. 2. *Ibalia (Tremibalia) jakowlewi*, female from Severyanka River, Kunashir Island, lateral view.

Ibalia (Tremibalia) jakowlewi Jacobson, 1899 Fig. 2

Ibalia jakowlewi Jacobson, 1899: 288; type locality: "Iretj", Balagansky district, Irkutskaya oblast, Russia.

Ibalia takachihoi Yasumatsu, 1937: 13; type locality: Mount Hikosan, Buzen, Kyushu, Japan.

MATERIAL. **Russia**: South Kurile, Kunashir Island, downstream Severyanka River, 5.VI 2014, 1° , leg. Yu. Sundukov.

DISTRIBUTION. Russia: Kunashir Island (new record), Primorskiy kray, Irkutskaya oblast, Altai, European part; Japan, Korea, Georgia, Ukraine, Czech Republic, Slovakia, Poland, Austria, Italy, Germany, Finland (Liu & Nordlander, 1994; Martikainen & Viitasaari, 1996; Melika, 2012; Choi *et al.*, 2013; Dal Pos, 2017).

HOSTS. Parasitoid of wood wasps (Siricidae: Tremicinae) *Tremex longicollis* Konow, 1896 in Japan and *T. fuscicornis* (Fabricius, 1787) in Europe in hardwoods (Liu & Nordlander, 1994; Holý *et al.*, 2012; Choi *et al.*, 2013).

KEY TO THE RUSSIAN FAR EAST SPECIES OF THE FAMILY IBALIIDAE

REFERENCES

- Aguiar, A.P., Deans, A.R., Engel, M.S., Forshage, M., Huber, J.T., Jennings, J.T., Jonson, N.F., Lelej, A.S., Longino, J.T., Lohrmann, V., Mikó, I., Ohl, M., Rasmussen, C., Taeger, A. & Yu, D.S.K. 2012. Order Hymenoptera. In: Zhang Z.-Q. (Ed.). Animal Biodiversity: An outline of higher-level classification and survey of taxonomic richness (Addenda 2013). *Zootaxa*, 3703(1): 51–62.
- Choi, W.-Y., Lee, J.-W. & Suh, K.-I. 2013. Taxonomic review of the family Ibaliidae (Cynipoidea: Hymenoptera) from Korea. *Entomological Research*, 43: 135–141.
- Dal Pos, D. 2017. First record of *Ibalia jakowlewi* Jacobson, 1899 and of the subgenus *Tremibalia* for Italy (Hymenoptera, Cynipoidea, Ibaliidae). *Bollettino del Museo di Storia Naturale di Venezia*, 68: 53–57.
- Hansen, O.L. 2010. The family Ibaliidae (Hymenoptera, Cynipoidea) in Norway. *Norwegian Journal of Entomology*, 57: 139–141.
- Holý, K., Psota, V., Šťastná, P. & Macek, J. 2012. Faunistic records from the Czech Republic and Slovakia (Hymenoptera: Ibaliidae, Ichneumonidae). *Acta Musei Moraviae. Scientiae biologicae* (Brno), 97(2): 65–68.
- Liu, Z. & Nordlander, G. 1994. Review of the family Ibaliidae (Hymenoptera: Cynipoidea) with keys to genera and species of the World. *Entomologica Scandinavica*, 25(4): 377–392.
- Ljubomirov, T., Raikova, M. & Georgiev, G. 2006. Ibaliidae and Embolemidae (Insecta, Hymenoptera), new families to the fauna of Bulgaria. *Acta zoologica bulgarica*, 58(3): 425–430.
- Martikainen, P. & Viitasaari, M. 1996. The family Ibaliidae (Hymenoptera, Cynipoidea) in Finland with *Ibalia jakowlewi* Jacobson new to Fennoscandia. *Sahlbergia*, 3: 24–27.
- Melika, Zh. 2012. Superfamily Cynipoidea. P. 139–146. In: Lelej A.S. (Ed.). *Annotated catalogue of the insects of Russian Far East. Volume I. Hymenoptera*. Dalnauka, Vladivostok. [In Russian]
- Muruaga de L'Argentier, S., Quintana de Quinteros, S., Gallardo, C. & Vilte, H. 2005. Establecimiento de *Ibalia leucospoides* (Hymenoptera: Ibaliidae) endoparásito de *Sirex noctilio* (Hymenoptera: Siricidae) en La Almona (Jujuy, Argentina). *Revista de la Sociedad Entomológica Argentina*, 64(1–2): 23–25.

Paretas-Martinèz, J., Forshage, M., Buffington, M., Fisher, N., La Salle, J. & Pujade-Villar, J. 2013. Overview of Australian Cynipoidea (Hymenoptera). Australian Journal of Entomology, 52: 73–86.

Peeters, Th.M.J. 2011. Ibalia leucospoides in Nederland. Hymeno Varia, 3: 54-56.

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